

FIGURE 1

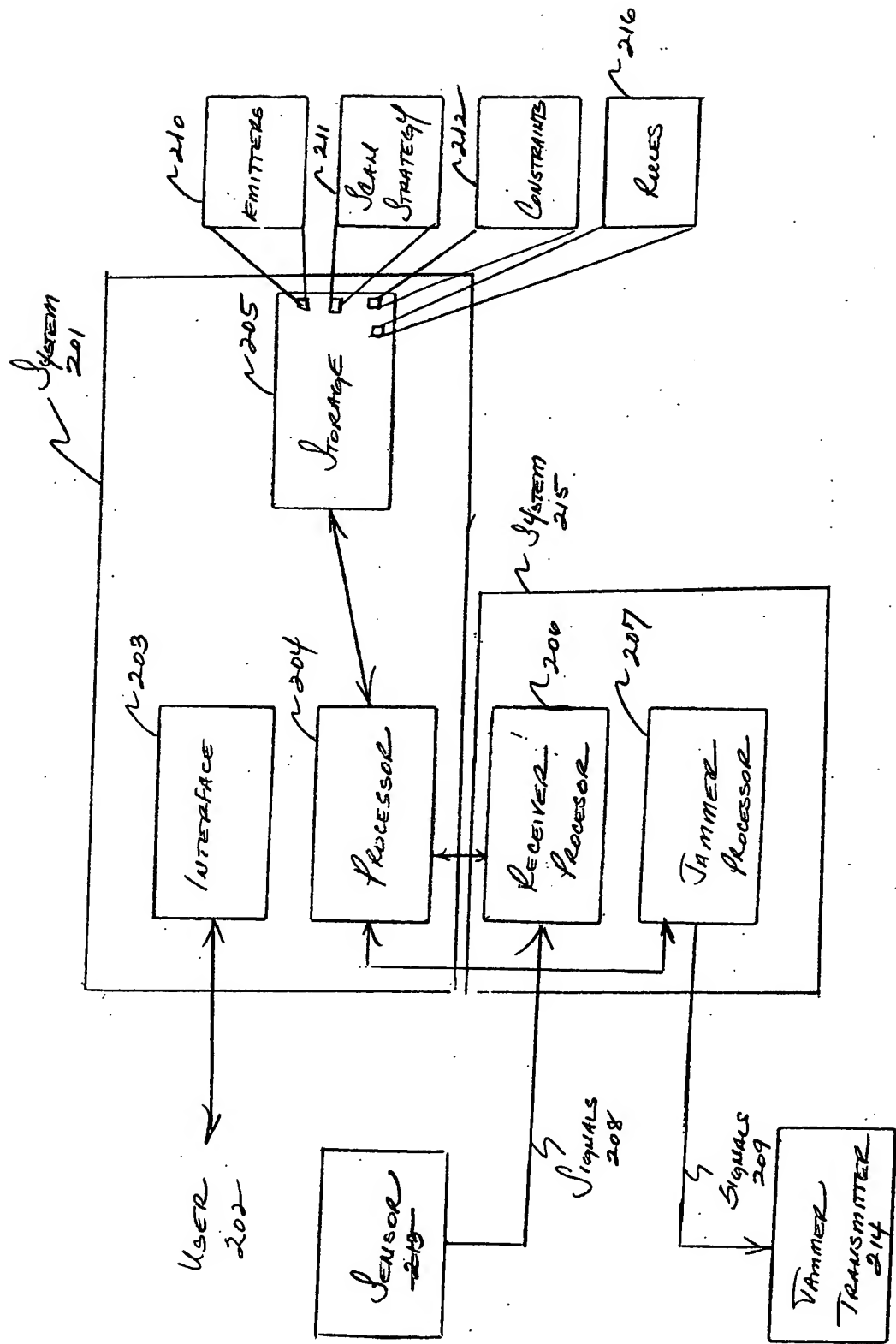
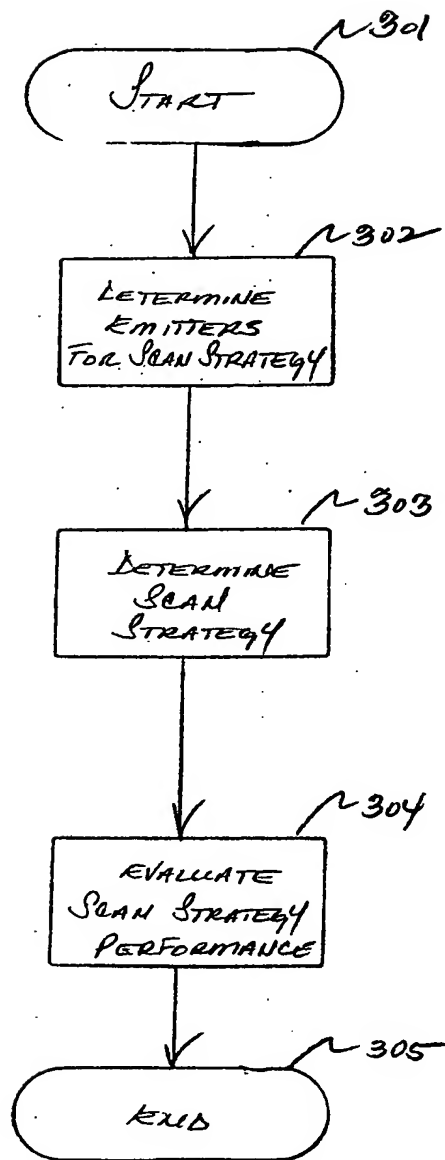


Figure 2



PROCESS
300

FIGURE 3

EMITTER
DATABASE
401

EMITTER
ENTRY
403

[illegible]

Starts
Early
Winter

Figure 4

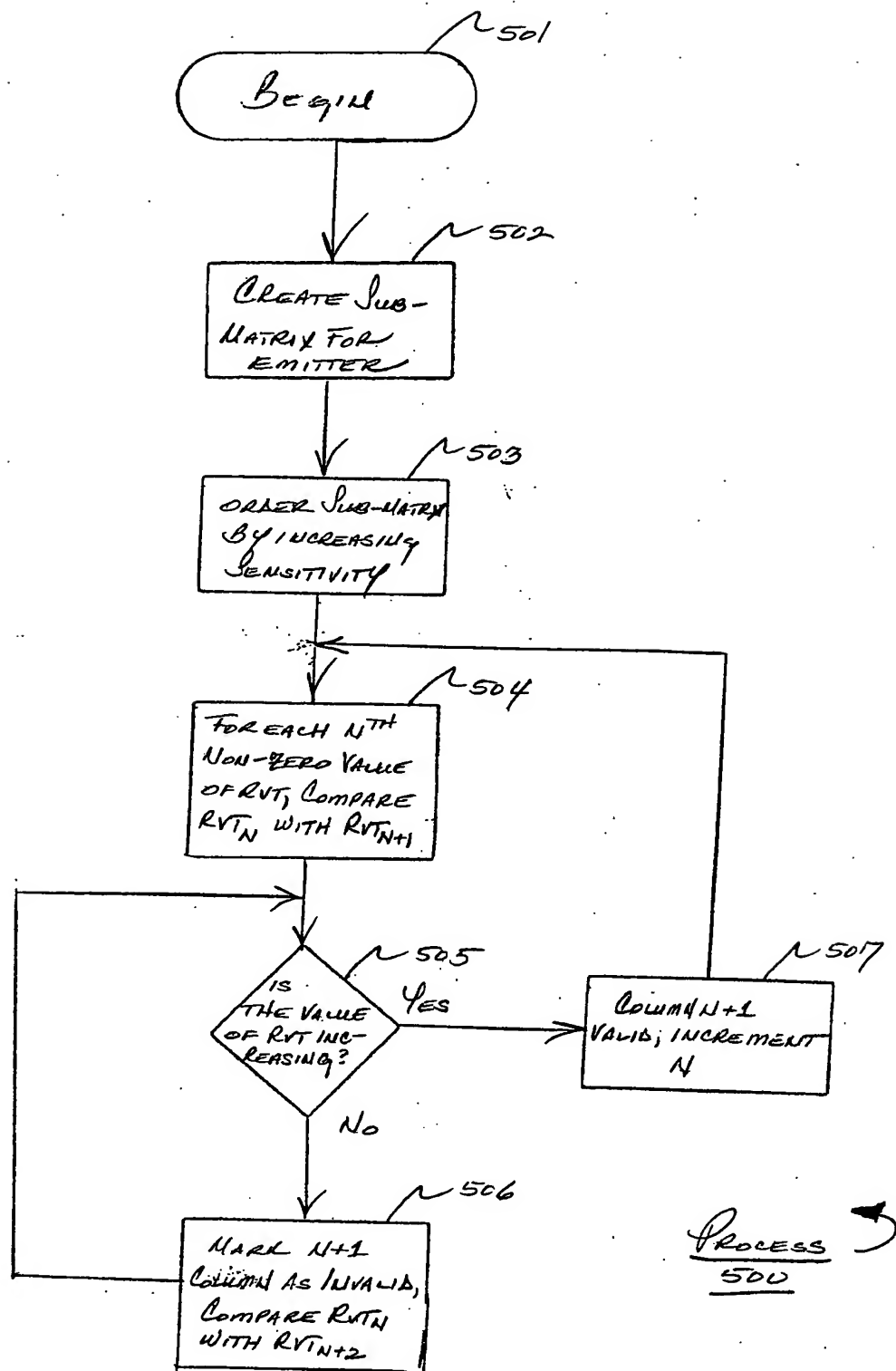


FIGURE 5

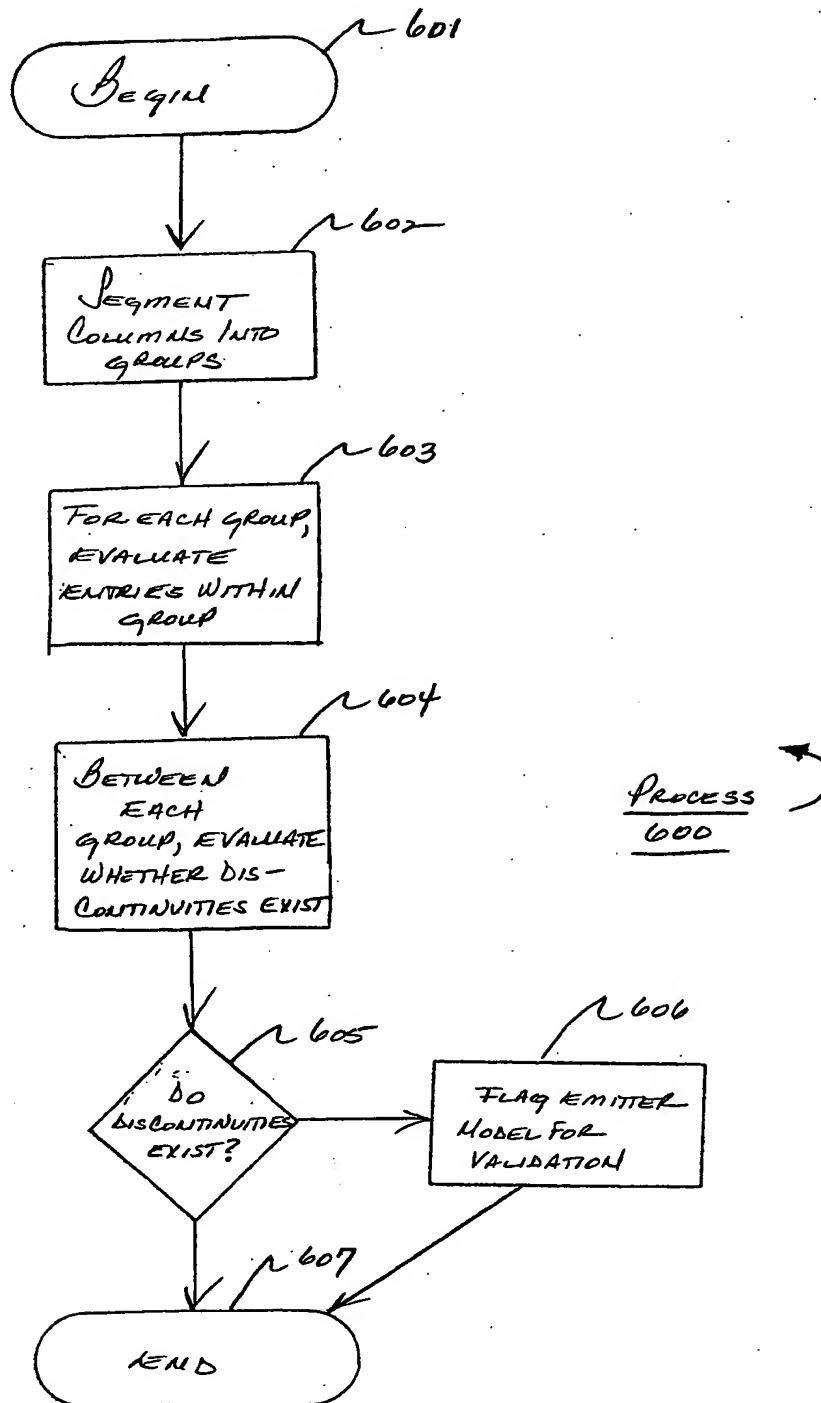


FIGURE 6

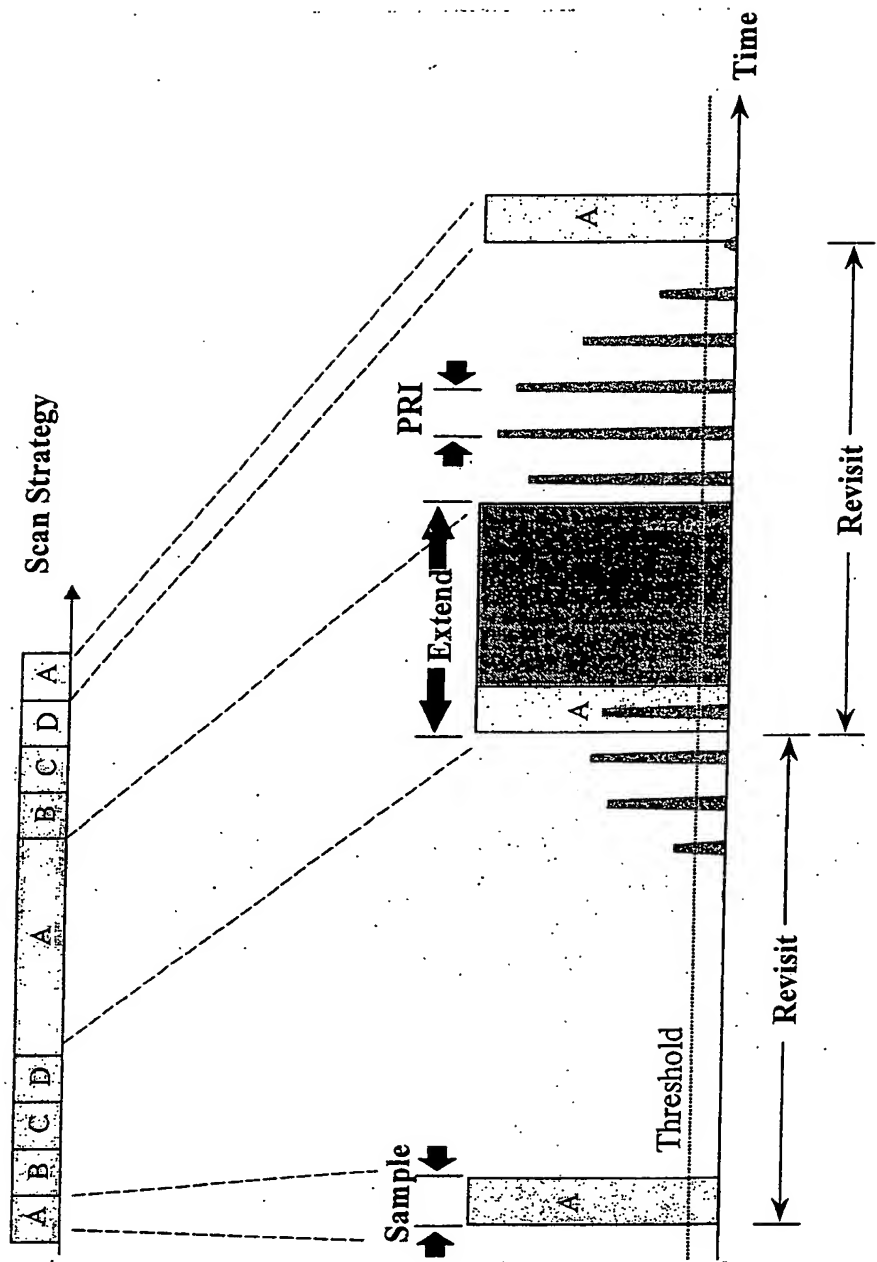


Figure 7

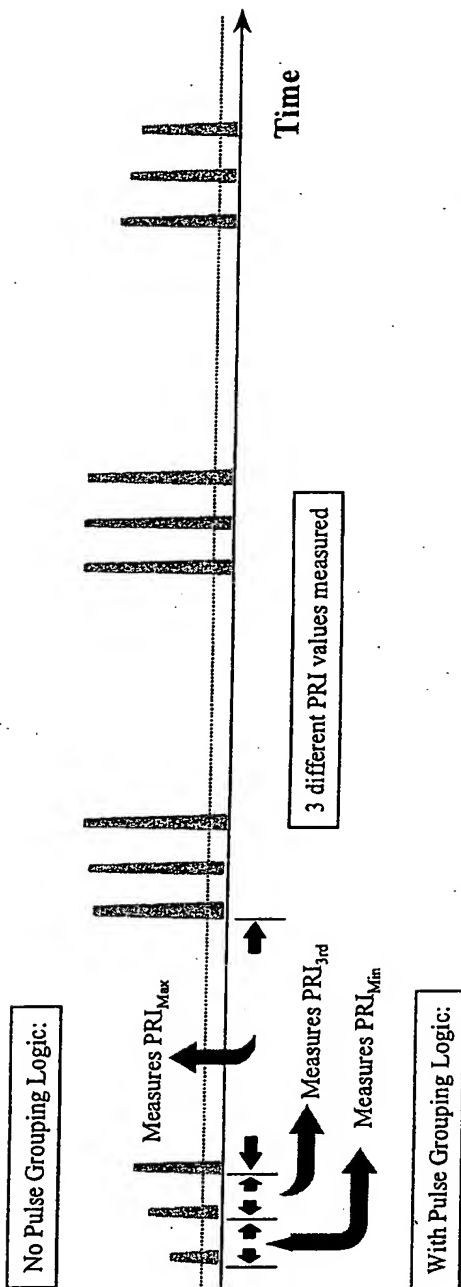


Figure 8A

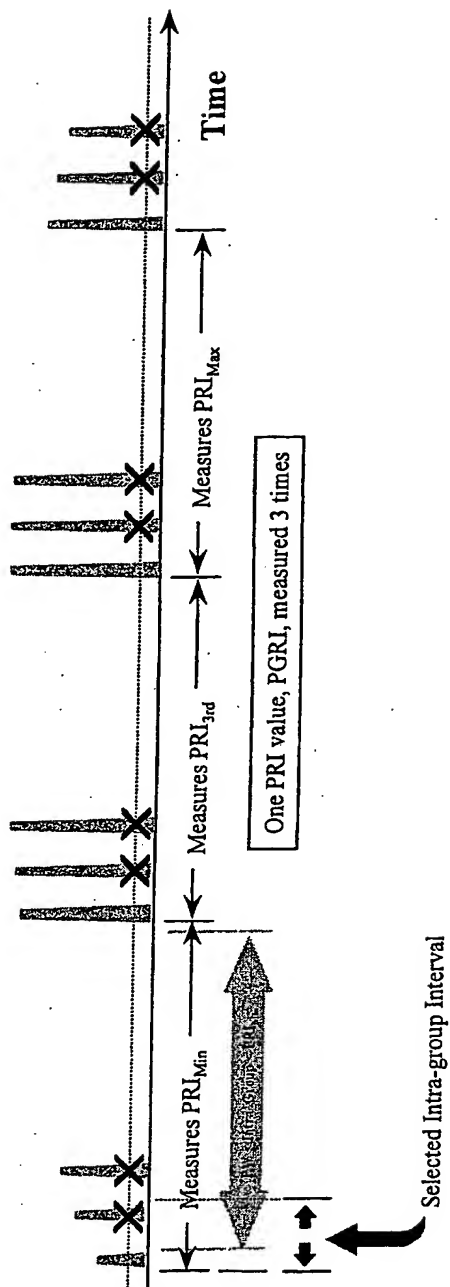


Figure 8B

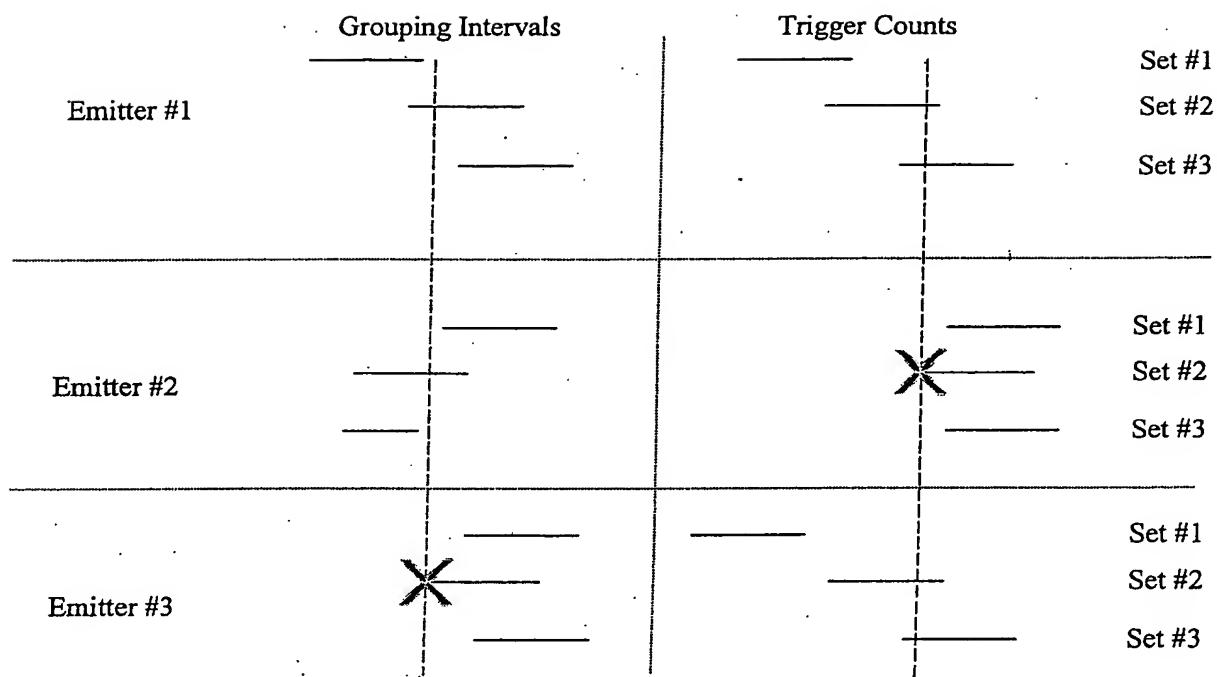
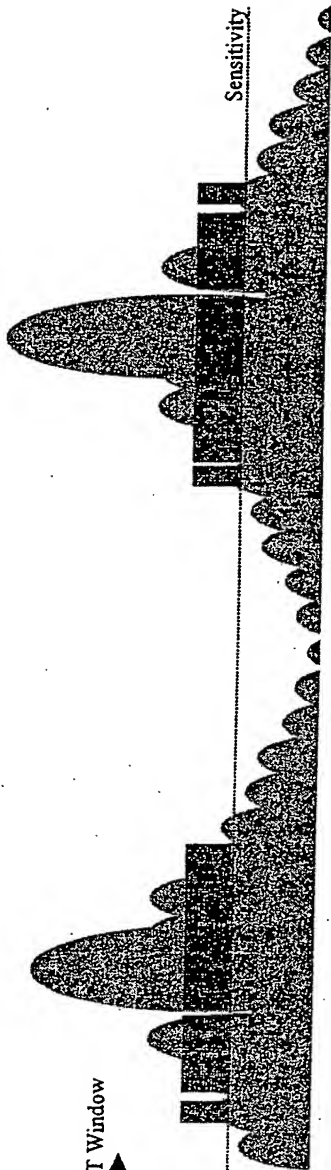


FIGURE 9

EDT Window

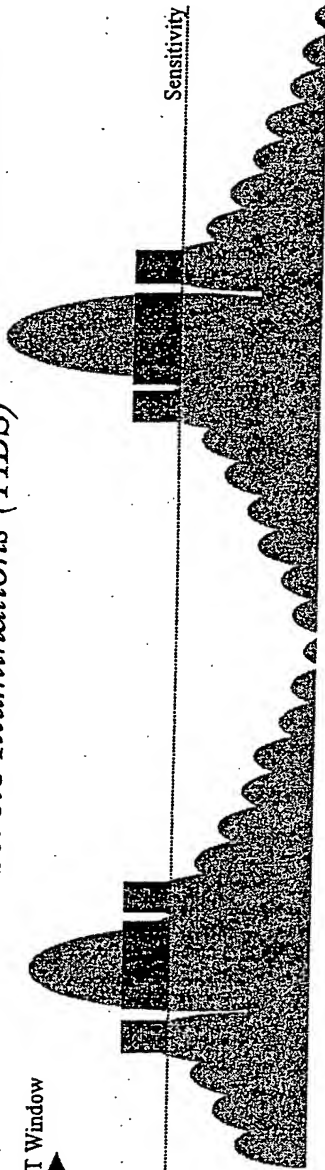


Sensitivity

Figure 10A

Discrete Illuminations (TIBS)

EDT Window



Sensitivity

Figure 10B

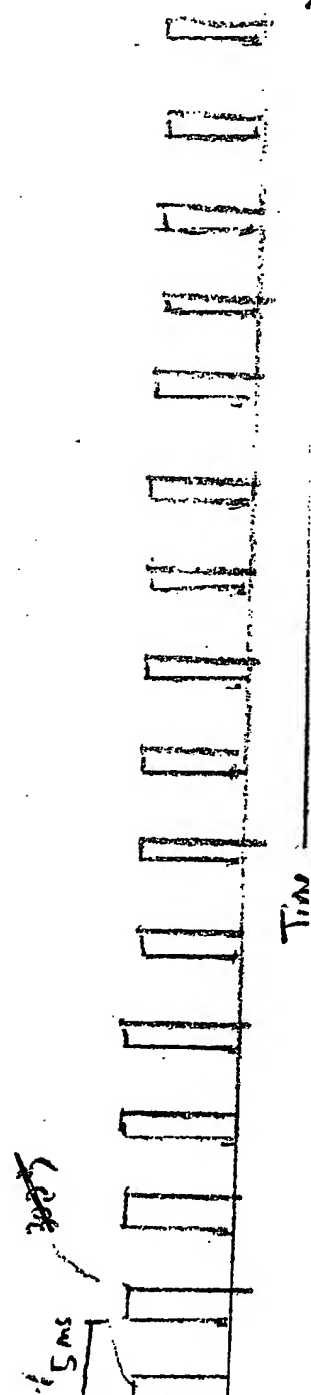
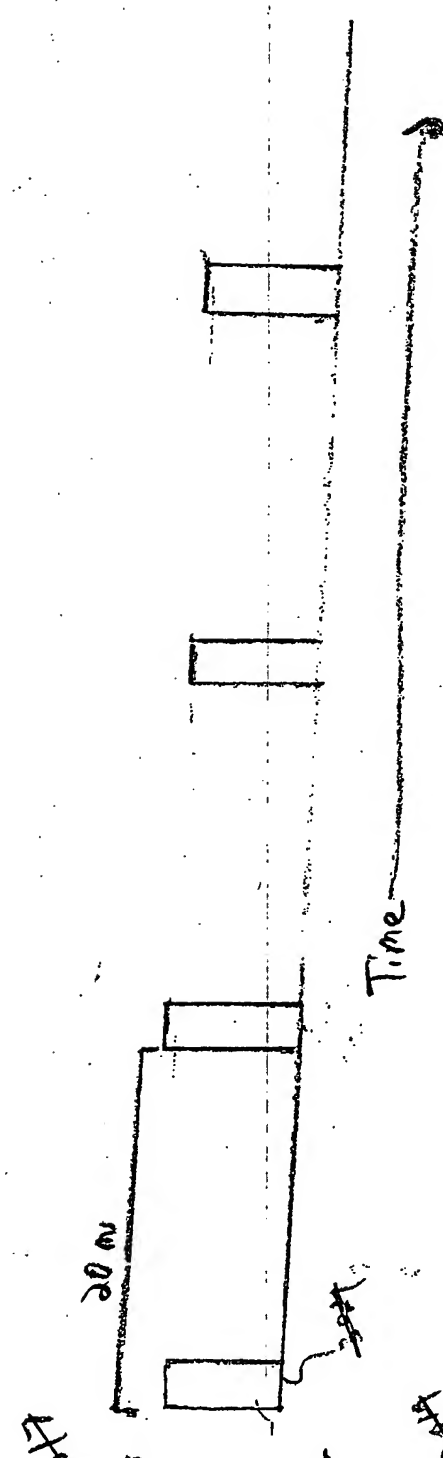
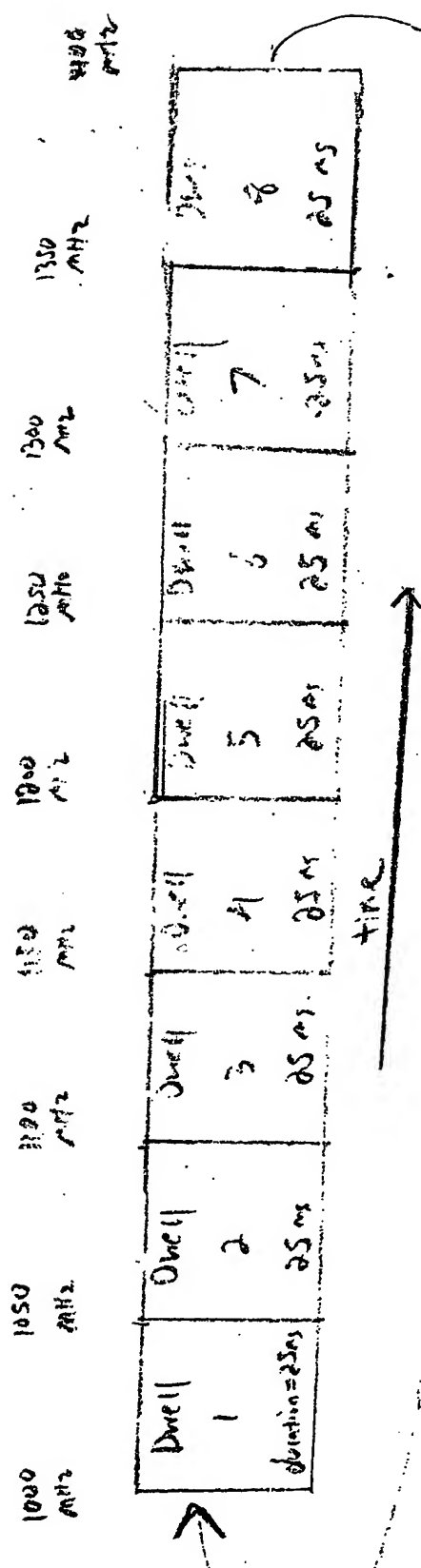
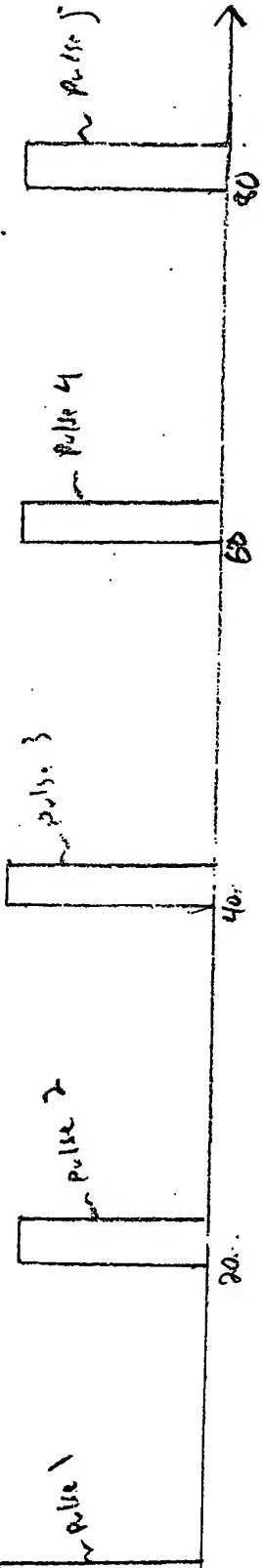


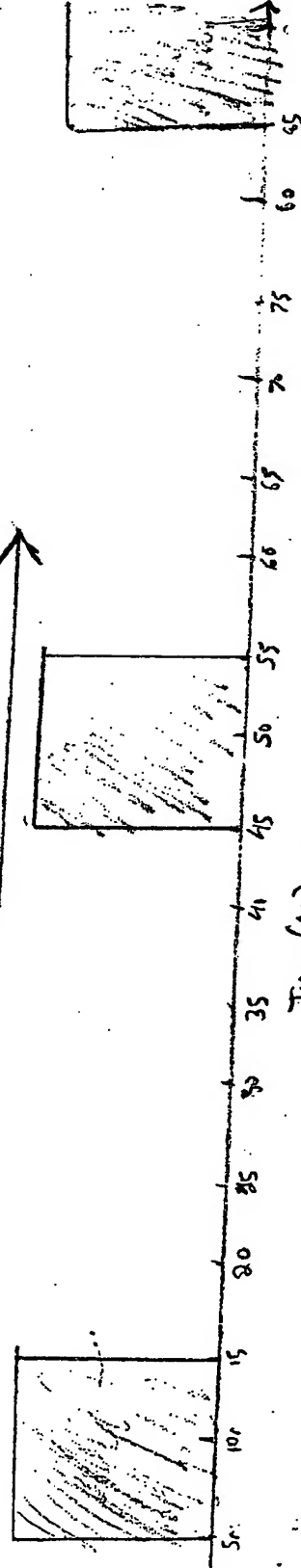
Figure 11

PRI = 20 NS



Emitter 3101

Time (ms)

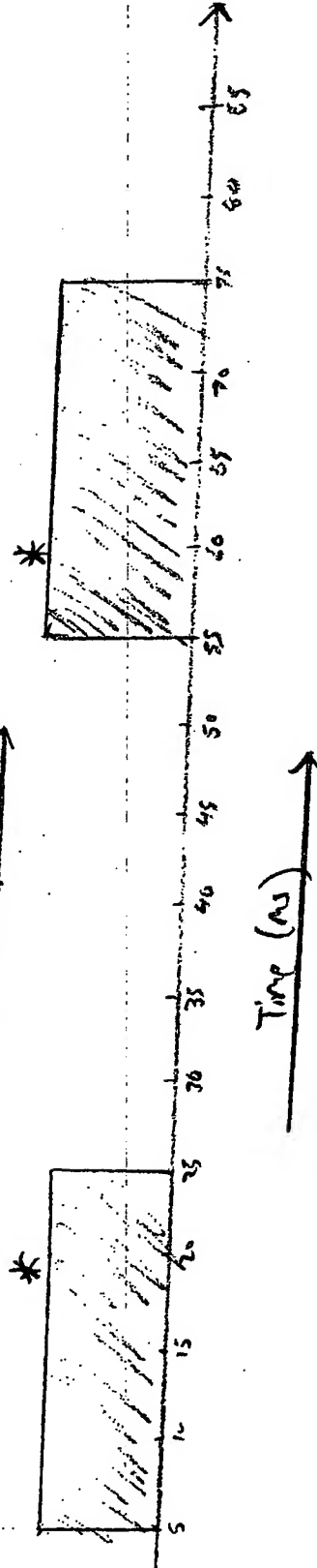


Solution 1

Dwell Duration = 10 ns

Revisit Time = 40 ns

Time (ns)



Solution 2

Dwell Duration = 20 ns

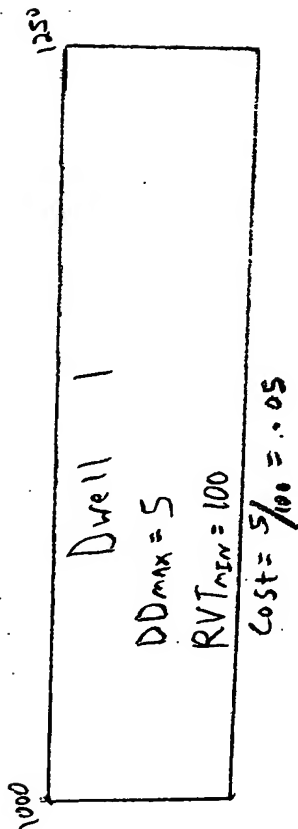
Revisit Time = 50 ns

Figure 12

4000

Emitter Name	Operating Mode 250 MHz ZF 15 MHz VDW	Operating Mode 250 MHz ZF 15 MHz VDW	RF Min (MHz)	RF Max (MHz)	RF Mod (MHz)
E1	100 ns	650 ns	1000	1300	3
E2	100 ns	780 ns	1220	1350	5
E3	110 ns	330 ns	1510	1810	2
E4	130 ns	390 ns	1730	1860	4

Figure B

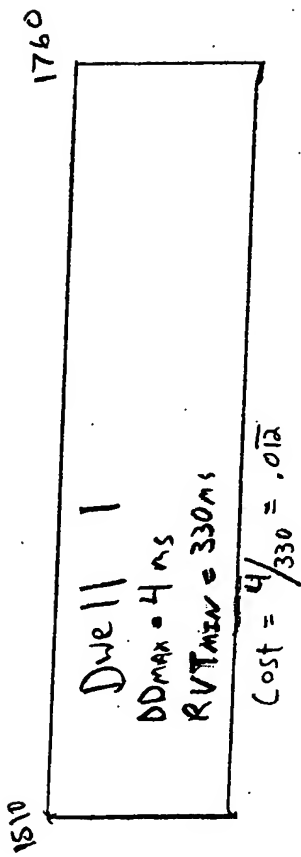


Solution 1

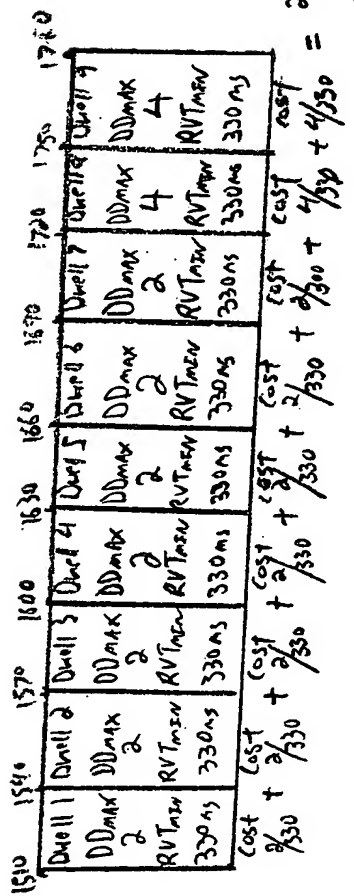
	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9			
DD_{max}	3	3	3	3	3	3	5	5			
RVT_{min}	650	650	650	650	650	650	650	650			
Cost	$3/650$	$3/650$	$3/650$	$3/650$	$3/650$	$3/650$	$5/650$	$5/650$			
Total Cost	$31/650 \approx .048$										

Solution 2

Figure 14A



Solution 1



Solution 2

Figure 14B

Figure 15

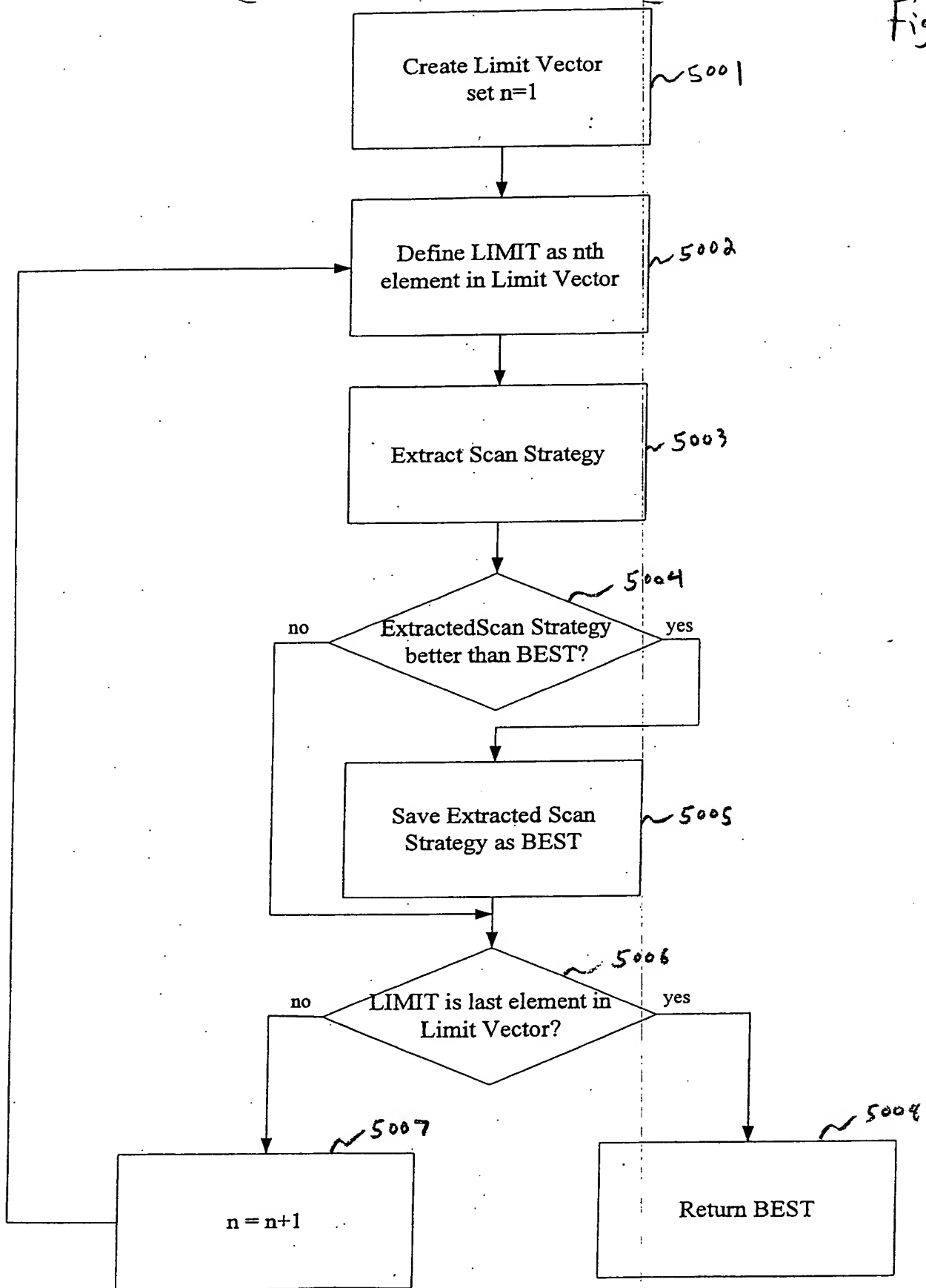
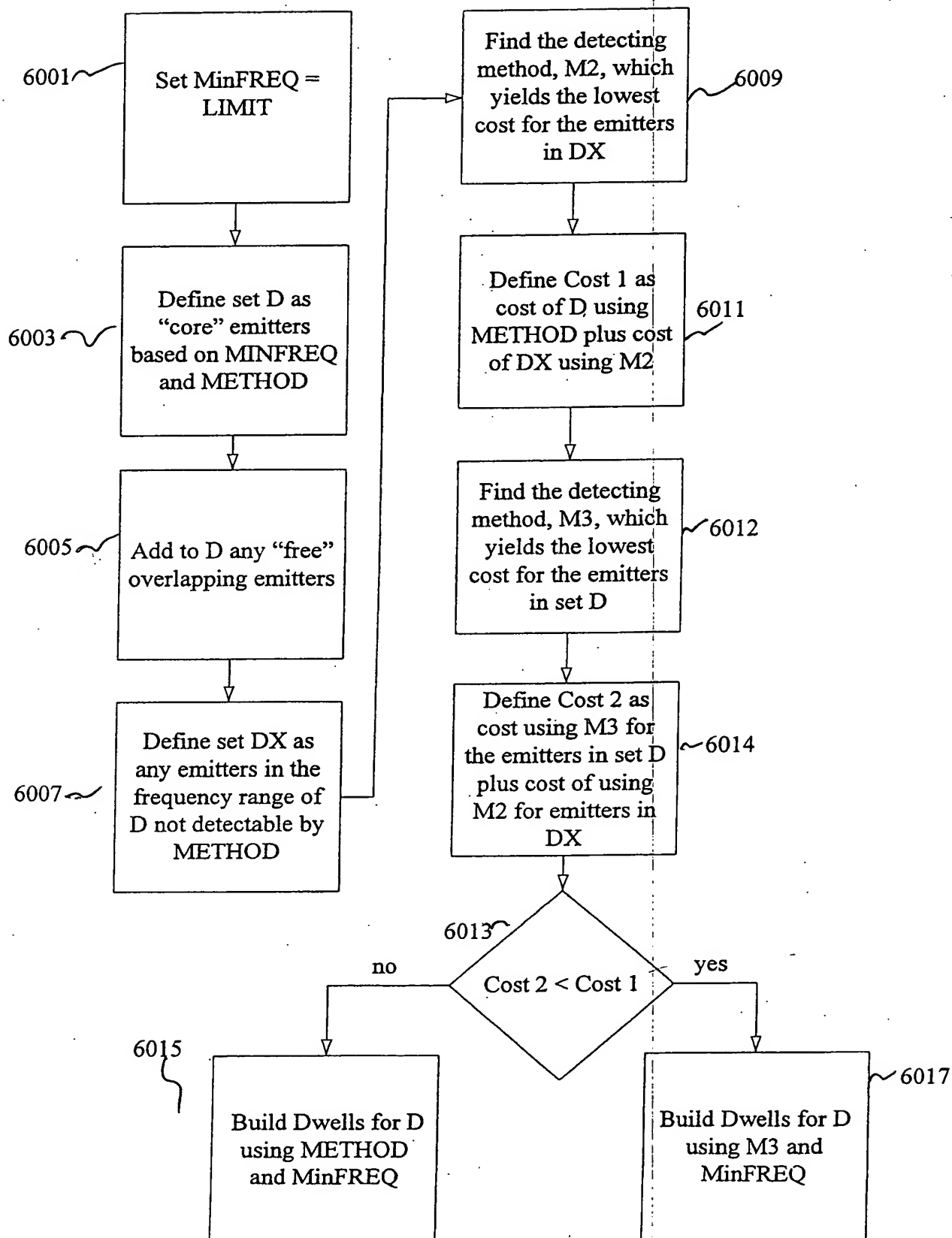


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

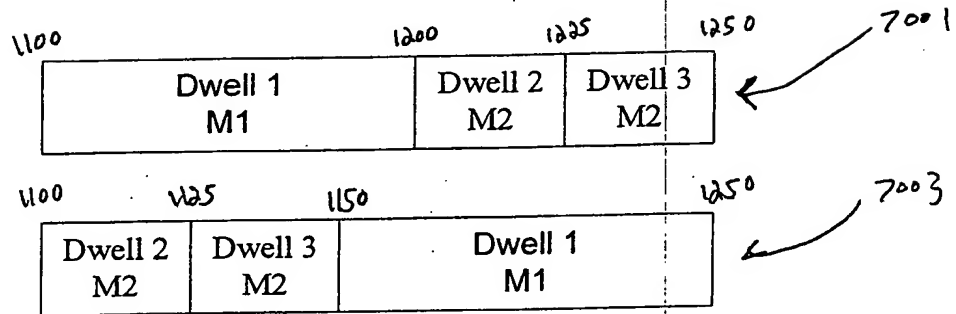
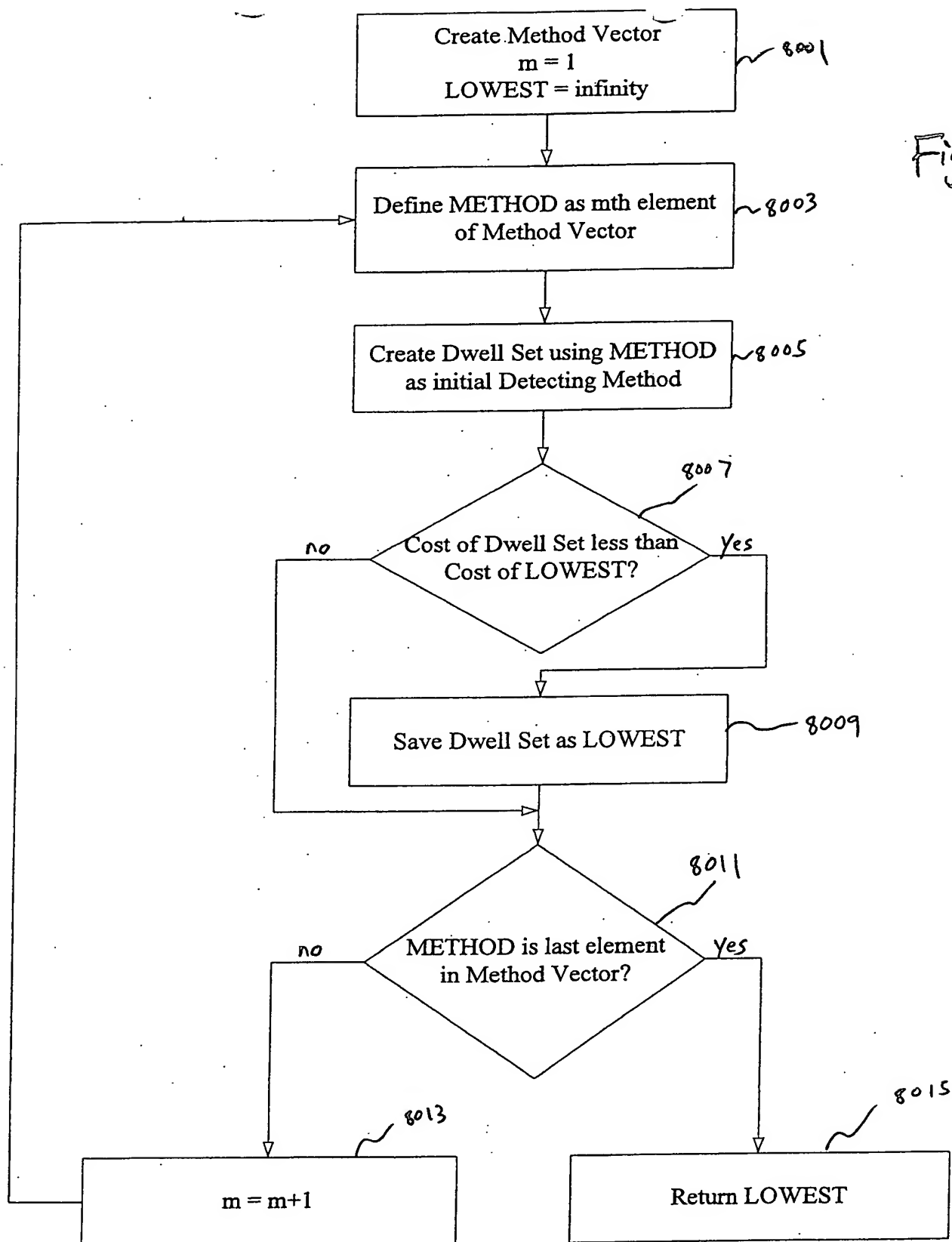


Figure 17

Figure 1:



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

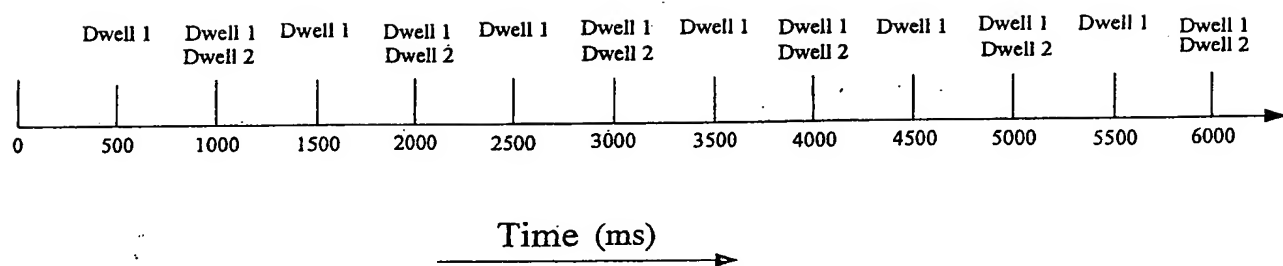
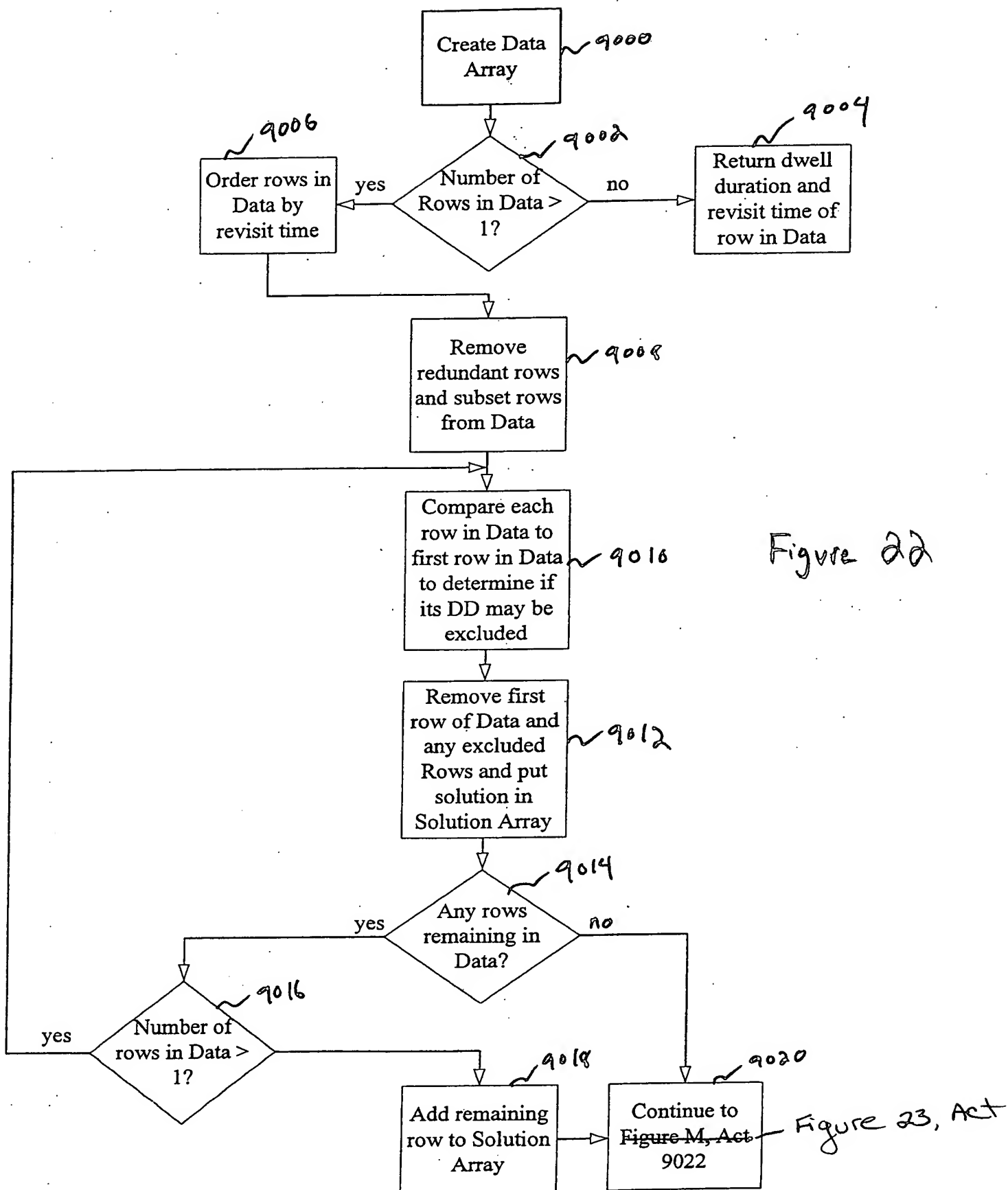
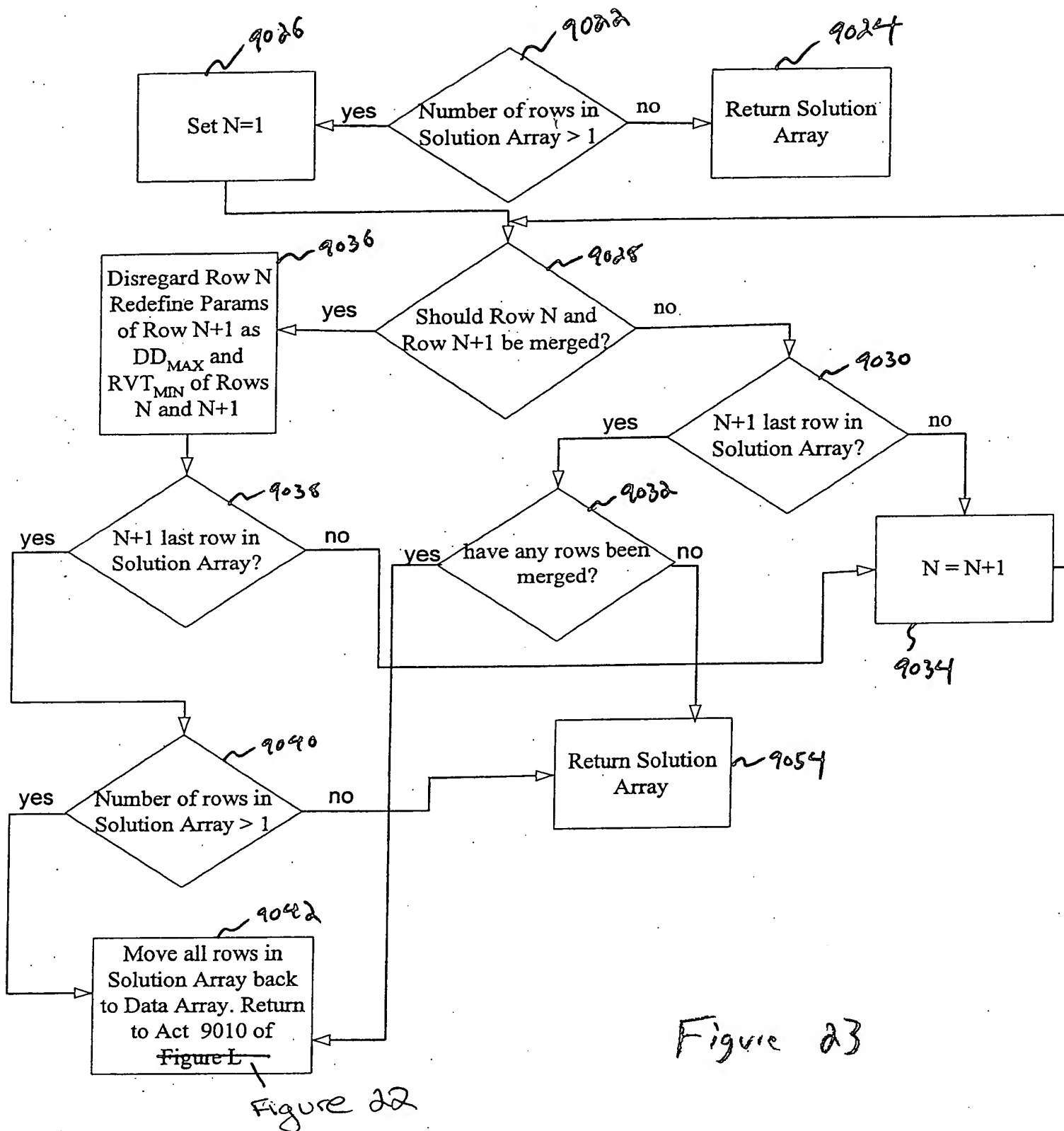


Figure 21





9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048
9049
9050

Figure 24B

9051
9052

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

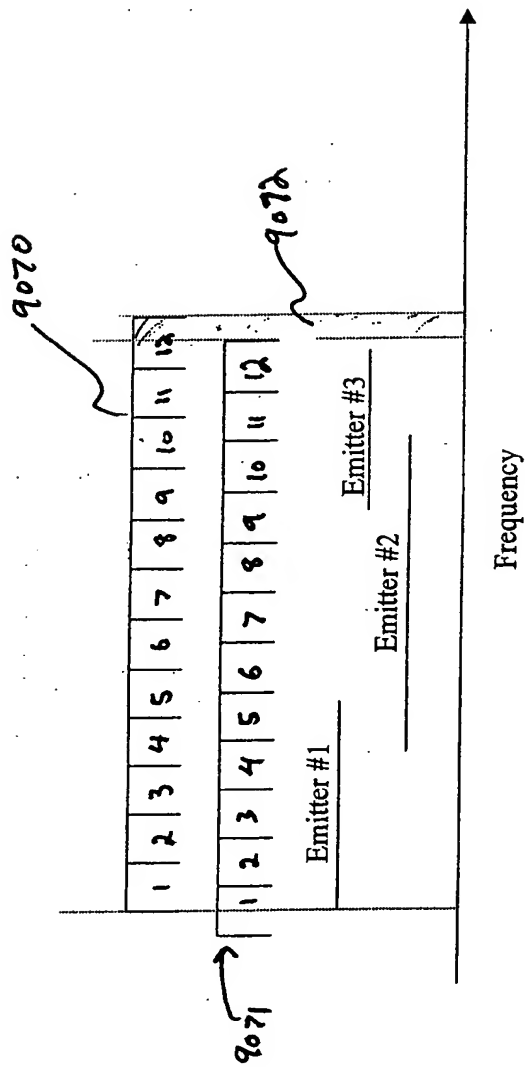


Figure 25

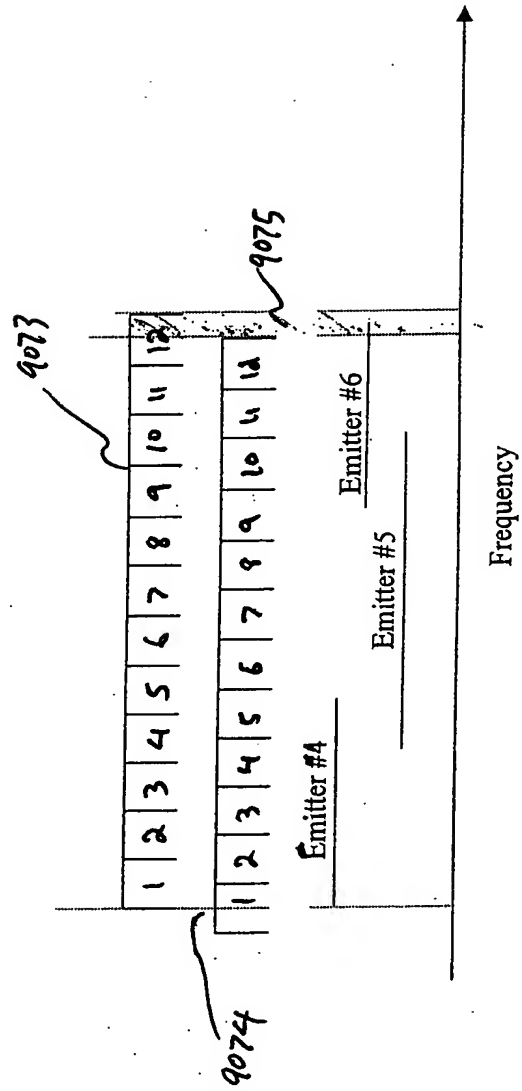


Figure 26

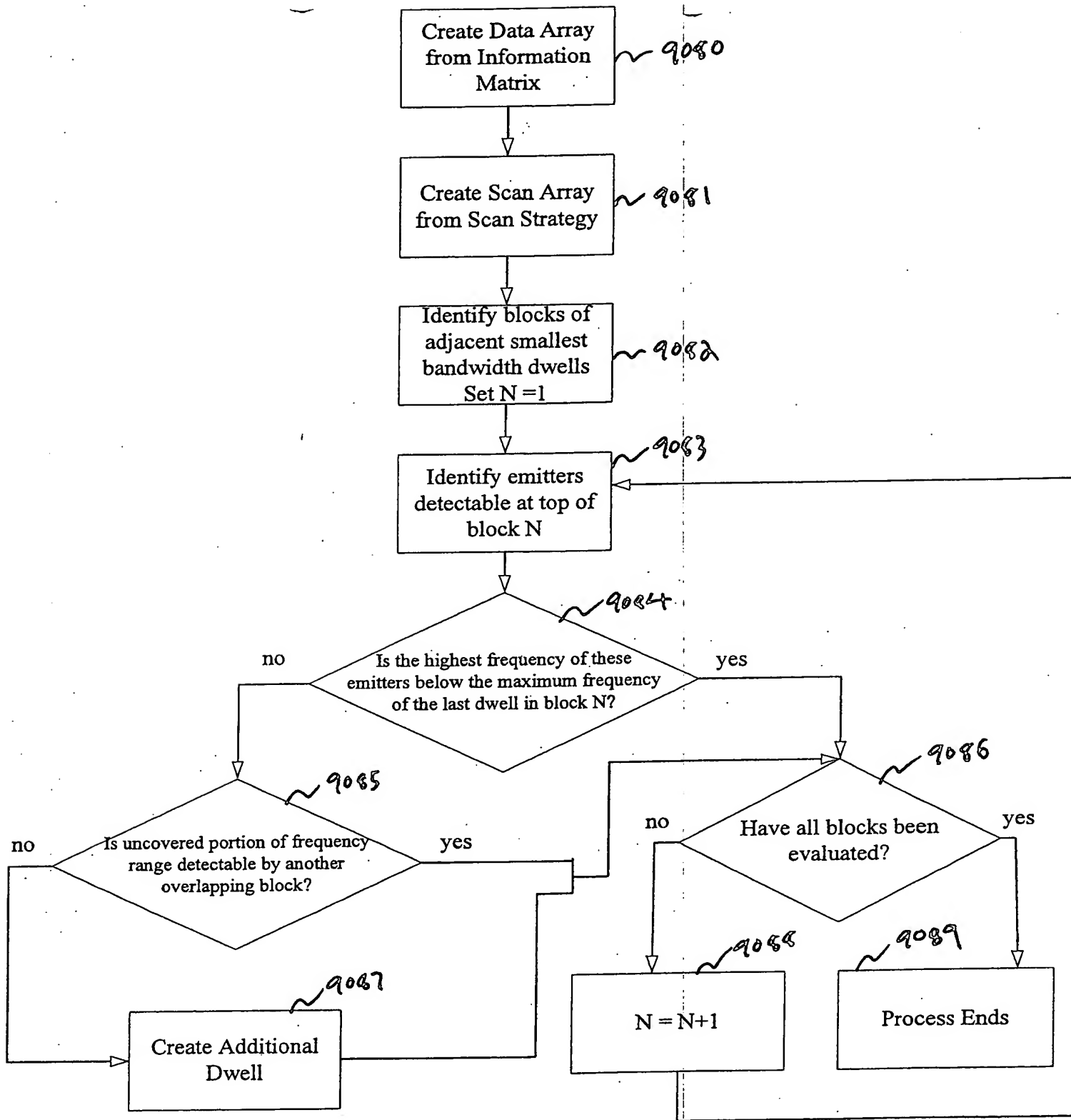


Figure 27

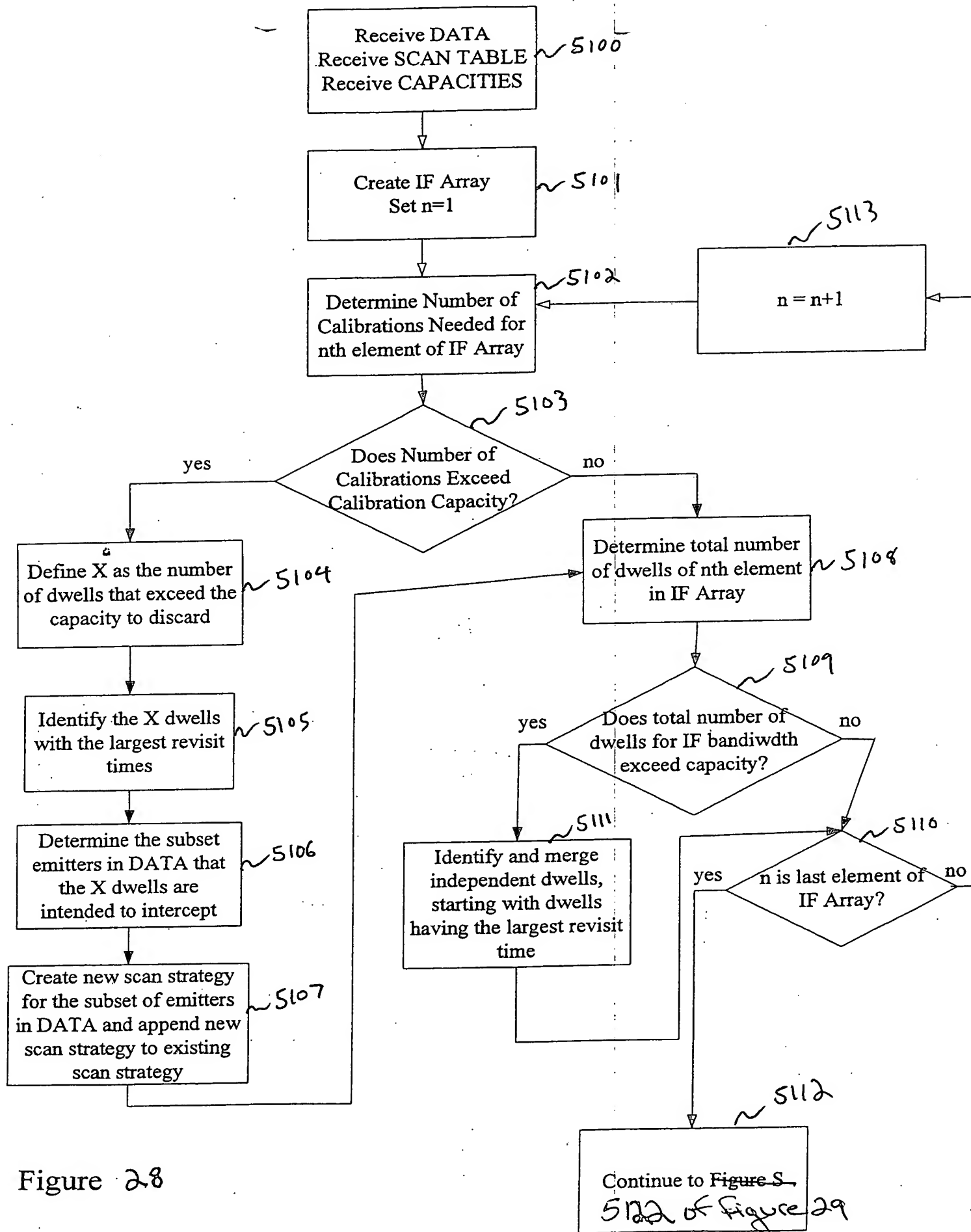


Figure 28

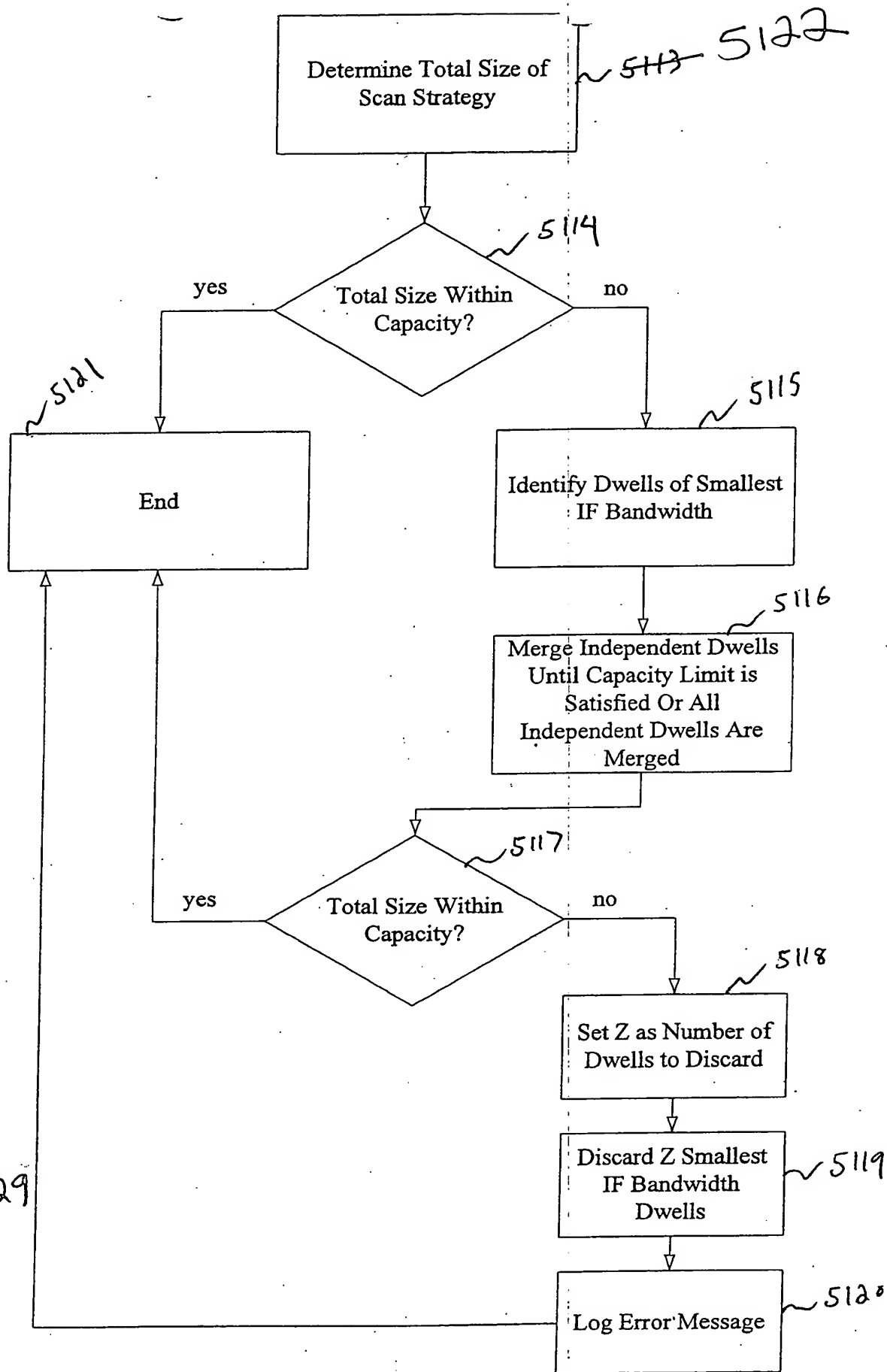


Figure 29

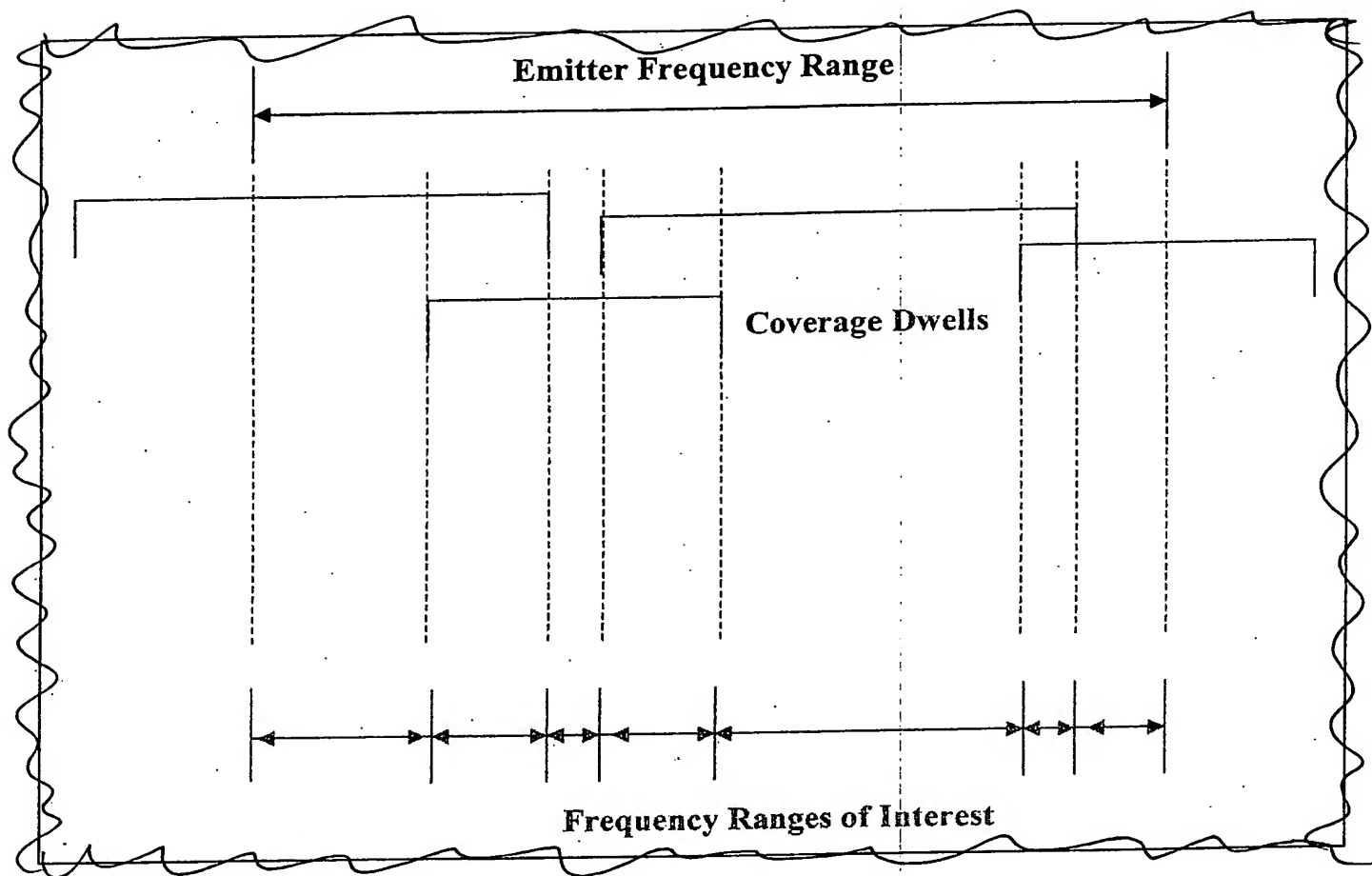


Figure 30

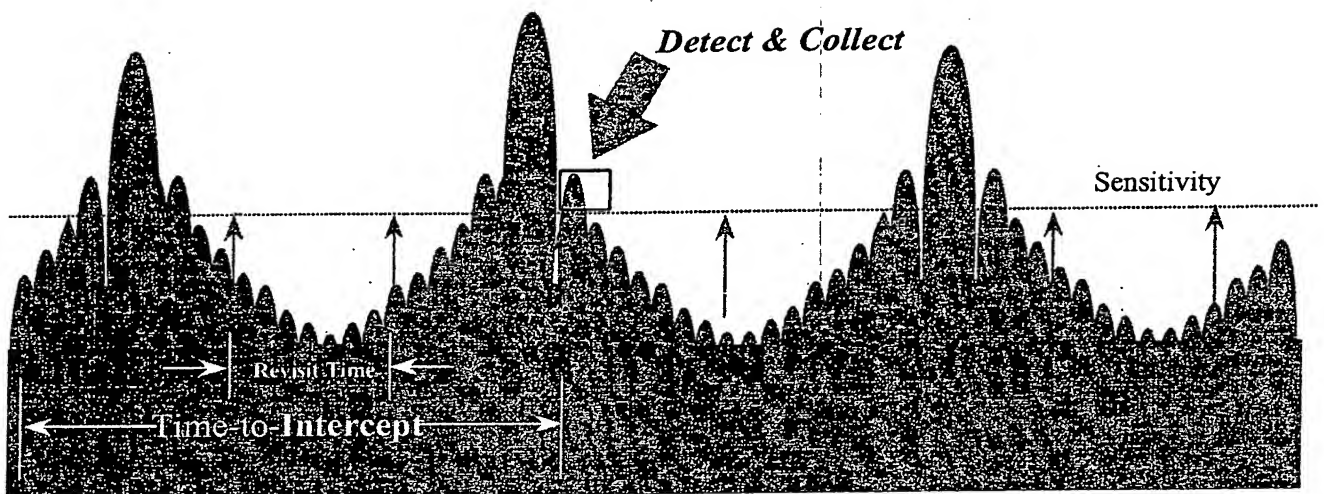


Figure 31

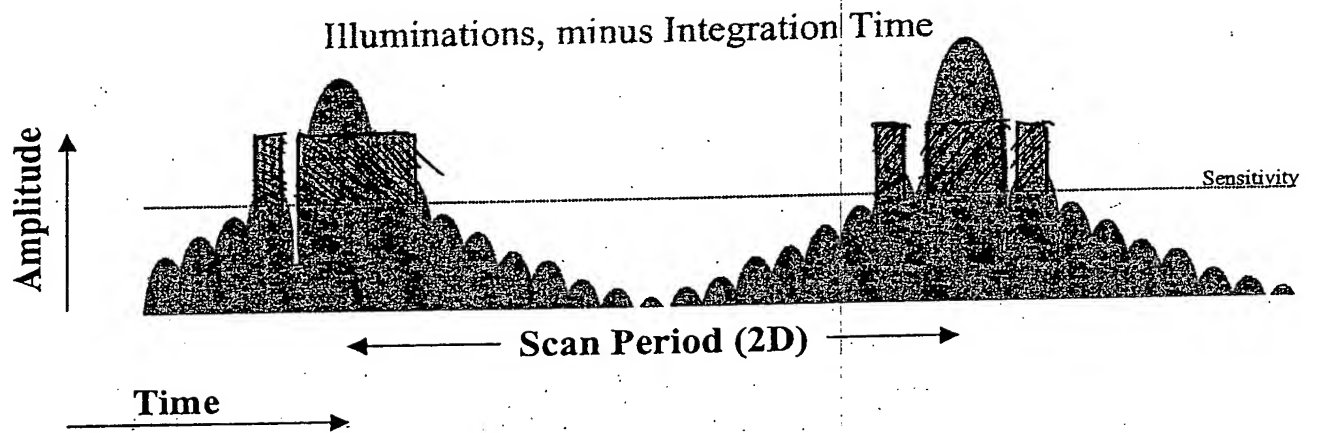


Figure 3a